

**From:** R4LIMS@epa.gov  
**Sent:** Wednesday, May 04, 2016 4:07 PM  
**To:** Teichert, Candice  
**Cc:** Turner, Nardina; ProutyS@bv.com; dawkinsrg@bv.com; Saskowski, Ronald; Goddard, Denise; Terhune, Ray  
**Subject:** UPDATED: R4 LIMS Results: Project 16-0316, C161601 TCLPM TMTL 05 04 16 1536  
**Attachments:** C161601 TCLPM TMTL FINAL 05 04 16 1536.PDF; C161601 TCLPM TMTL FINAL 05 04 16 1536 - 16-0316 - NEVADA GOLDFIELDS INCORPORATED BARITE 05-04-2016.110008551986.Dat

**NOTE:** Some or all of these results have been previously transmitted but changes may have been made since then. Contact the lab analyst shown below if you need more information.

On Wednesday, May 4, 2016, results for the following were released by the Region 4 Laboratory:

**Analyses:**

TCLP Metals (TCLPM)

Total Metals (TMTL)

**Project Number:** 16-0316

**Project Name:** Barite Hill/Nevada Goldfields

**City:** McCormick    **County:** McCormick    **State:** SC

**These results were reported by:**

**Denise Goddard** ( E-mail: [Goddard.Denise@epa.gov](mailto:Goddard.Denise@epa.gov) )

If you have questions concerning the laboratory results, please feel free to contact the laboratory personnel shown above as having reported the data. We also encourage you to provide feedback to the Region 4 laboratory by filling out our online (*EPA internal network only*) [Customer Survey Form](#).

**These results are for the following Sample Type(s):**

Soil (Sediment)

Water (Equipment Rinse Blank)

**PDF DATA RESULTS REPORT FILE ATTACHMENT:**

An Adobe Acrobat PDF file is attached to this message that contains final results for the analyses as indicated in the data report.

**DATA EXPORT FILE ATTACHMENT:**

If attached, data export files will be tab delimited ASCII text files contained in a file that has been formatted using the ZIP archiving format (.Dat extension). Please consult your local computer support personnel if you have problems extracting these files. If you have questions about the data file formats and the information contained in these files, or if you would like to request export files for previously reported data, use the contact information shown below to contact the appropriate person with your concerns. To generate export files for previously reported data we'll need the name of the PDF report file that was attached to the original transmittal message.

For questions concerning this message and attachments, or any other LIMS or data reporting issues, please call the SESD PC Hotline at 706-355-8825 or send an email to [r4lims@epa.gov](mailto:r4lims@epa.gov).

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

**May 4, 2016**

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 16-0316, Barite Hill/Nevada Goldfields  
Superfund Remedial

**FROM:** Denise Goddard  
Office of Quality Assurance Chemist

**THRU:** Ray Terhune, Acting Chief  
Office of Quality Assurance

**TO:** Candice Teichert

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the associated contract Statement Of Work (SOW). In general, project data quality objectives have not been used to evaluate these data prior to release by the Office of Quality Assurance. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report.

Analyses Included in this report:

Method Used:

Accreditations:

**TCLP Metals (TCLPM)**

TCLP Metals

Contract SOW (Soil)

**Total Metals (TMTL)**

Total Mercury  
Total Mercury  
Total Metals  
Total Metals

CLP Inorganics (Soil)  
CLP Inorganics (Water)  
CLP Inorganics (Soil)  
CLP Inorganics (Water)



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D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

**Report Narrative for Work Order: C161601 Analysis: TCLPM**

Inorganic Data Review and Validation Report

Site Name: Barite Hills/Nevada Goldfields, McCormick, SC

Case No.: 46066, Project No. 16-0316, Work Order Nos. C161601, C161602

ELEMENT Sample IDs.: C161601-01 – 26, C161602-01, 03

Sampling Date(s): 3/15/16

Validated Time of Sample Receipt: 3/18/16

Laboratory Performing Inorganic Analyses: Chemtech Consulting Group, Mountainside, NJ

Date Received from Lab: 4/8/16

Analyses conducted: Total Metals, TCLP Metals, and Mercury

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 26 soil samples and two water samples for Total Metals by ICP-AES and ICP-MS, mercury and TCLP Metals by ICP-AES according to the contract Statement of Work ISM02.3 and EPA guidelines. The TCLP metals were analyzed and reported as water samples, using mg/L as the units.

This package presents acceptable contractual and technical performance with qualifications. Additional details are provided below.

Examination of laboratory blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as ten times the blank levels to discount possible false positives due to contamination in laboratory blanks. The equipment rinse blank was found to contain 14.8 µg/L zinc which is above the Contract Required Quantitation Limit. No qualifiers were applied on the basis of field blank contamination.

**ICP-AES Analysis**

**PE Sample Results**

The performance evaluation sample (PES) recoveries for metals in soil by ICP-AES were scored as within limits by the web-based SPS Web software. Therefore, no data qualifiers were applied on the basis of these criteria.

There was not a PES submitted for water analysis by ICP-AES.

**Other QA/QC Results**

There were no other QA/QC problems observed for metals analysis by ICP-AES. Therefore, no data qualifiers were applied to the sample results for metals based on these criteria.

**ICP-MS Analysis**

**PE Sample Results**

The performance evaluation sample (PES) recoveries for metals in water by ICP-MS were scored as within limits by the web-based SPS Web software. Therefore, no data qualifiers were applied on the basis of these criteria.

There was not a PES submitted for soil analysis by ICP-MS.

**Other QA/QC Results**

Matrix spike recovery was above acceptance limits for cadmium in sample C161601-08. The result was 162% recovery and the





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post-digestion spike recovery was 111%. The cadmium result in sample C161601-08 was considered estimated and "J" qualified.

Serial dilution soil results were above acceptance limits for arsenic (24%) in SDG MD9SA6. Arsenic soil results in SDG MD9SA6 were considered estimated and "J" qualified.

#### **Mercury Analysis**

#### **PE Sample Results**

The PES recovery for mercury in soil was scored as within limits by the web-based SPS Web software. Therefore, no data qualifiers were applied on the basis of this criterion.

There was not a PES submitted for mercury analysis in water.

#### **Other QA/QC Results**

There were no other QA/QC problems observed for mercury analysis. Therefore, no data qualifiers were applied to the sample results for mercury based on these criteria.

A Stage 4 validation consisting of manual review was performed on the inorganic samples submitted for this case.

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D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

**Report Narrative for Work Order: C161601 Analysis: TMTL**

Data Review and Validation Report

Site Name: Barite Hills/Nevada Goldfields, McCormick, SC

Case No.: 46066, Project No. 16-0316, Work Order Nos. C161601, C161602

ELEMENT Sample IDs.: C161601-01 – 26, C161602-01, 03

Sampling Date(s): 3/15/16

Validated Time of Sample Receipt: 3/18/16

Laboratory Performing Inorganic Analyses: Chemtech Consulting Group, Mountainside, NJ

Date Received from Lab: 4/8/16

Analyses conducted: Total Metals, TCLP Metals, and Mercury

This report is being re-issued on May 4, 2016, to remove the duplicate mercury results for TCLP samples.

The ESAT Work Team has reviewed the above-captioned CLP data package consisting of 26 soil samples and two water samples for Total Metals by ICP-AES and ICP-MS, mercury and TCLP Metals by ICP-AES according to the contract Statement of Work ISM02.3 and EPA guidelines. The TCLP metals were analyzed and reported as water samples, using mg/L as the units.

This package presents acceptable contractual and technical performance with qualifications. Additional details are provided below.

Examination of laboratory blank samples revealed apparent low-level contamination with several elements. Reported detection limits were adjusted as high as ten times the blank levels to discount possible false positives due to contamination in laboratory blanks. The equipment rinse blank was found to contain 14.8 µg/L zinc which is above the Contract Required Quantitation Limit. No qualifiers were applied on the basis of field blank contamination.

**ICP-AES Analysis**

**PE Sample Results**

The performance evaluation sample (PES) recoveries for metals in soil by ICP-AES were scored as within limits by the web-based SPS Web software. Therefore, no data qualifiers were applied on the basis of these criteria.

There was not a PES submitted for water analysis by ICP-AES.

**Other QA/QC Results**

There were no other QA/QC problems observed for metals analysis by ICP-AES. Therefore, no data qualifiers were applied to the sample results for metals based on these criteria.

**ICP-MS Analysis**

**PE Sample Results**

The performance evaluation sample (PES) recoveries for metals in water by ICP-MS were scored as within limits by the web-based SPS Web software. Therefore, no data qualifiers were applied on the basis of these criteria.

There was not a PES submitted for soil analysis by ICP-MS.

**Other QA/QC Results**



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Matrix spike recovery was above acceptance limits for cadmium in sample C161601-08. The result was 162% recovery and the post-digestion spike recovery was 111%. The cadmium result in sample C161601-08 was considered estimated and "J" qualified.

Serial dilution soil results were above acceptance limits for arsenic (24%) in SDG MD9SA6. Arsenic soil results in SDG MD9SA6 were considered estimated and "J" qualified.

**Mercury Analysis**

**PE Sample Results**

The PES recovery for mercury in soil was scored as within limits by the web-based SPS Web software. Therefore, no data qualifiers were applied on the basis of this criterion.

There was not a PES submitted for mercury analysis in water.

**Other QA/QC Results**

There were no other QA/QC problems observed for mercury analysis. Therefore, no data qualifiers were applied to the sample results for mercury based on these criteria.

A Stage 4 validation consisting of manual review was performed on the inorganic samples submitted for this case.

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cc: Nardina Turner



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**SAMPLES INCLUDED IN THIS REPORT**

**Project: 16-0316, Barite Hill/Nevada Goldfields**

**Contract Lab Case: 46066**

Sample ID	Laboratory ID	MD#	D#	Matrix	Date Collected
BH510SD1	C161601-01	9S94		Sediment	3/15/16 09:30
BH511SD1	C161601-02	9S95		Sediment	3/15/16 09:41
BH511SD3	C161601-03	9S96		Sediment	3/15/16 09:50
BH512RB1	C161601-04	9S93		Equipment Rinse Blank	3/15/16 16:00
BH512SD1	C161601-05	9S97		Sediment	3/15/16 15:40
BH512SD3	C161601-06	9S98		Sediment	3/15/16 15:45
BH9512SD3	C161601-07	9SB6		Sediment	3/15/16 16:45
BH513SD1	C161601-08	9S99		Sediment	3/15/16 10:10
BH514SD1	C161601-09	9SA0		Sediment	3/15/16 10:15
BH514SD3	C161601-10	9SA1		Sediment	3/15/16 10:25
BH514SD4	C161601-11	9SA2		Sediment	3/15/16 10:45
BH515SD1	C161601-12	9SA3		Sediment	3/15/16 13:05
BH515SD3	C161601-13	9SA4		Sediment	3/15/16 13:10
BH515SD4	C161601-14	9SA5		Sediment	3/15/16 13:15
BH516SD1	C161601-15	9SA6		Sediment	3/15/16 13:35
BH517SD1	C161601-16	9SA7		Sediment	3/15/16 13:45
BH517SD3	C161601-17	9SA8		Sediment	3/15/16 13:50
BH517SD5	C161601-18	9SA9		Sediment	3/15/16 13:55
BH9517SD3	C161601-19	9SB7		Sediment	3/15/16 14:50
BH518SD1	C161601-20	9SB0		Sediment	3/15/16 14:30
BH518SD3	C161601-21	9SB1		Sediment	3/15/16 14:40
BH518SD5	C161601-22	9SB2		Sediment	3/15/16 14:45
BH519SD1	C161601-23	9SB3		Sediment	3/15/16 15:10
BH519SD3	C161601-24	9SB4		Sediment	3/15/16 15:15
BH519SD5	C161601-25	9SB5		Sediment	3/15/16 15:20
BH9519SD1	C161601-26	9SB8		Sediment	3/15/16 16:10





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### DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
Q-5	Serial dilution precision outside method control limits
OM-2	Matrix Spike Recovery greater than method control limits

### ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service  Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ( <a href="http://www.epa.gov/srs">www.epa.gov/srs</a> ), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH510SD1

Lab ID: C161601-01

MD No: 9S94 CHM

Station ID: BH510

Matrix: Sediment

D No:

Date Collected: 3/15/16 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.17		mg/kg dry	0.13	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	73		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	7500		mg/kg dry	20	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	0.97	U	mg/kg dry	0.97	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	1.6		mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	130		mg/kg dry	20	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.48	U	mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	0.48	U	mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	250	J, Q-2	mg/kg dry	500	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	5.6		mg/kg dry	0.97	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	2.7		mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	570		mg/kg dry	0.97	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	5700		mg/kg dry	9.9	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	18		mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	440	J, Q-2	mg/kg dry	500	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	49		mg/kg dry	1.5	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	2.0		mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	84	J, Q-2	mg/kg dry	500	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	0.66	J, Q-2	mg/kg dry	2.4	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.48	U	mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	27	J, Q-2	mg/kg dry	500	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.48	U	mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	17		mg/kg dry	2.4	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	41		mg/kg dry	0.97	3/21/16	3/30/16	CLP ISM02.3 MS



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D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

**TCLP Metals**

**Project: 16-0316, Barite Hill/Nevada Goldfields**

**Contract Lab Case: 46066**

**Sample ID: BH510SD1**

**Lab ID: C161601-01**

**MD No: 9S94 CHM**

**Station ID: BH510**

**Matrix: Sediment**

**D No:**

**Date Collected: 3/15/16 9:30**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-39-3	Barium	0.84	J, Q-2	mg/L	100	3/25/16	3/29/16	CLP ISM02.3 P
7440-43-9	Cadmium	0.0076	J, Q-2	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-47-3	Chromium	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-92-1	Lead	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-97-6	Mercury	0.00057	J, Q-2	mg/L	0.20	3/25/16	3/25/16	CLP ISM02.3 CV
7782-49-2	Selenium	1.0	U	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-22-4	Silver	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P



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D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH511SD1

Lab ID: C161601-02

MD No: 9S95 CHM

Station ID: BH511

Matrix: Sediment

D No:

Date Collected: 3/15/16 9:41

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.080	J, Q-2	mg/kg dry	0.13	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	74		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	9400		mg/kg dry	20	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	0.97	U	mg/kg dry	0.97	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	2.4		mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	320		mg/kg dry	20	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.48	U	mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	1.7		mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	380	J, Q-2	mg/kg dry	500	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	6.9		mg/kg dry	0.97	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	5.5		mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	430		mg/kg dry	0.97	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	10000		mg/kg dry	10	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	21		mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	590		mg/kg dry	500	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	130		mg/kg dry	1.5	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	3.6		mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	160	J, Q-2	mg/kg dry	500	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	2.4	U	mg/kg dry	2.4	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.48	U	mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	43	J, Q-2	mg/kg dry	500	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.48	U	mg/kg dry	0.48	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	20		mg/kg dry	2.4	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	77		mg/kg dry	0.97	3/21/16	3/30/16	CLP ISM02.3 MS





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Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH511SD3

Lab ID: C161601-03

MD No: 9S96 CHM

Station ID: BH511

Matrix: Sediment

D No:

Date Collected: 3/15/16 9:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.072	J, Q-2	mg/kg dry	0.11	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	83		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	7000		mg/kg dry	16	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	0.91	U	mg/kg dry	0.91	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	3.4		mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	110		mg/kg dry	16	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.45	U	mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	0.89		mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	440		mg/kg dry	410	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	8.0		mg/kg dry	0.91	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	7.1		mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	33		mg/kg dry	0.91	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	16000		mg/kg dry	8.2	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	34		mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	620		mg/kg dry	410	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	180		mg/kg dry	1.2	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	2.0		mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	150	J, Q-2	mg/kg dry	410	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	2.3	U	mg/kg dry	2.3	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.45	U	mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	62	J, Q-2	mg/kg dry	410	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.45	U	mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	24		mg/kg dry	2.3	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	57		mg/kg dry	0.91	3/21/16	3/30/16	CLP ISM02.3 MS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH512RB1

Lab ID: C161601-04

MD No: 9S93 CHM

Station ID: BH512

Matrix: Equipment Rinse Blank

D No:

Date Collected: 3/15/16 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20	U	ug/L	0.20	3/24/16	3/24/16	CLP ISM02.3 CV
7429-90-5	Aluminum	200	U	ug/L	200	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	2.0	U	ug/L	2.0	3/22/16	4/04/16	CLP ISM02.3 MS
7440-38-2	Arsenic	1.0	U	ug/L	1.0	3/22/16	4/04/16	CLP ISM02.3 MS
7440-39-3	Barium	200	U	ug/L	200	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	1.0	U	ug/L	1.0	3/22/16	4/04/16	CLP ISM02.3 MS
7440-43-9	Cadmium	1.0	U	ug/L	1.0	3/22/16	4/04/16	CLP ISM02.3 MS
7440-70-2	Calcium	210	J, Q-2	ug/L	5000	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	2.0	U	ug/L	2.0	3/22/16	4/04/16	CLP ISM02.3 MS
7440-48-4	Cobalt	1.0	U	ug/L	1.0	3/22/16	4/04/16	CLP ISM02.3 MS
7440-50-8	Copper	2.0	U	ug/L	2.0	3/22/16	4/04/16	CLP ISM02.3 MS
7439-89-6	Iron	100	U	ug/L	100	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	1.0	U	ug/L	1.0	3/22/16	4/04/16	CLP ISM02.3 MS
7439-95-4	Magnesium	5000	U	ug/L	5000	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	15	U	ug/L	15	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	1.0	U	ug/L	1.0	3/22/16	4/04/16	CLP ISM02.3 MS
7440-09-7	Potassium	5000	U	ug/L	5000	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	5.0	U	ug/L	5.0	3/22/16	4/04/16	CLP ISM02.3 MS
7440-22-4	Silver	1.0	U	ug/L	1.0	3/22/16	4/04/16	CLP ISM02.3 MS
7440-23-5	Sodium	270	J, Q-2	ug/L	5000	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	1.0	U	ug/L	1.0	3/22/16	4/04/16	CLP ISM02.3 MS
7440-62-2	Vanadium	5.0	U	ug/L	5.0	3/22/16	4/04/16	CLP ISM02.3 MS
7440-66-6	Zinc	15		ug/L	2.0	3/22/16	4/04/16	CLP ISM02.3 MS



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D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH512SD1

Lab ID: C161601-05

MD No: 9S97 CHM

Station ID: BH512

Matrix: Sediment

D No:

Date Collected: 3/15/16 15:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.034	J, Q-2	mg/kg dry	0.13	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	75		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	9200		mg/kg dry	18	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	0.94	U	mg/kg dry	0.94	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	2.1		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	130		mg/kg dry	18	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.47	U	mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	1.6		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	530		mg/kg dry	460	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	7.8		mg/kg dry	0.94	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	14		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	150		mg/kg dry	0.94	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	12000		mg/kg dry	9.1	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	26		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	600		mg/kg dry	460	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	450		mg/kg dry	1.4	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	1.6		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	130	J, Q-2	mg/kg dry	460	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	0.67	J, Q-2	mg/kg dry	2.3	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.47	U	mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	75	J, Q-2	mg/kg dry	460	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.47	U	mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	22		mg/kg dry	2.3	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	57		mg/kg dry	0.94	3/21/16	3/30/16	CLP ISM02.3 MS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

**TCLP Metals**

**Project: 16-0316, Barite Hill/Nevada Goldfields**

**Contract Lab Case: 46066**

**Sample ID: BH512SD1**

**Lab ID: C161601-05**

**MD No: 9S97 CHM**

**Station ID: BH512**

**Matrix: Sediment**

**D No:**

**Date Collected: 3/15/16 15:40**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-39-3	Barium	1.2	J, Q-2	mg/L	100	3/25/16	3/29/16	CLP ISM02.3 P
7440-43-9	Cadmium	0.010	J, Q-2	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-47-3	Chromium	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-92-1	Lead	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-97-6	Mercury	0.00025	J, Q-2	mg/L	0.20	3/25/16	3/25/16	CLP ISM02.3 CV
7782-49-2	Selenium	1.0	U	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-22-4	Silver	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH512SD3

Lab ID: C161601-06

MD No: 9S98 CHM

Station ID: BH512

Matrix: Sediment

D No:

Date Collected: 3/15/16 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.040	J, Q-2	mg/kg dry	0.11	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	82		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	9500		mg/kg dry	18	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	0.84	U	mg/kg dry	0.84	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	3.3		mg/kg dry	0.42	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	53		mg/kg dry	18	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.42	U	mg/kg dry	0.42	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	0.42	U	mg/kg dry	0.42	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	470		mg/kg dry	440	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	9.4		mg/kg dry	0.84	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	2.0		mg/kg dry	0.42	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	18		mg/kg dry	0.84	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	27000		mg/kg dry	8.9	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	12		mg/kg dry	0.42	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	450		mg/kg dry	440	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	250		mg/kg dry	1.3	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	0.98		mg/kg dry	0.42	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	89	J, Q-2	mg/kg dry	440	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	0.44	J, Q-2	mg/kg dry	2.1	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.42	U	mg/kg dry	0.42	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	99	J, Q-2	mg/kg dry	440	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.42	U	mg/kg dry	0.42	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	32		mg/kg dry	2.1	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	21		mg/kg dry	0.84	3/21/16	3/30/16	CLP ISM02.3 MS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## TCLP Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH512SD3

Lab ID: C161601-06

MD No: 9S98 CHM

Station ID: BH512

Matrix: Sediment

D No:

Date Collected: 3/15/16 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-39-3	Barium	0.89	J, Q-2	mg/L	100	3/25/16	3/29/16	CLP ISM02.3 P
7440-43-9	Cadmium	0.00090	J, Q-2	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-47-3	Chromium	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-92-1	Lead	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-97-6	Mercury	0.20	U	mg/L	0.20	3/25/16	3/25/16	CLP ISM02.3 CV
7782-49-2	Selenium	1.0	U	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-22-4	Silver	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH9512SD3

Lab ID: C161601-07

MD No: 9SB6 CHM

Station ID: BH512

Matrix: Sediment

D No:

Date Collected: 3/15/16 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.025	J, Q-2	mg/kg dry	0.11	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	83		%		3/23/16	3/23/16	CLP Inorganics
7429-90-5	Aluminum	9900		mg/kg dry	18	3/23/16	3/23/16	CLP ISM02.3 P
7440-36-0	Antimony	0.89	U	mg/kg dry	0.89	3/26/16	4/04/16	CLP ISM02.3 MS
7440-38-2	Arsenic	6.5	J, Q-5	mg/kg dry	0.44	3/26/16	4/04/16	CLP ISM02.3 MS
7440-39-3	Barium	60		mg/kg dry	18	3/23/16	3/23/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.098	J, Q-2	mg/kg dry	0.44	3/26/16	4/04/16	CLP ISM02.3 MS
7440-43-9	Cadmium	0.44	U	mg/kg dry	0.44	3/26/16	4/04/16	CLP ISM02.3 MS
7440-70-2	Calcium	540		mg/kg dry	440	3/23/16	3/23/16	CLP ISM02.3 P
7440-47-3	Chromium	18		mg/kg dry	0.89	3/26/16	4/04/16	CLP ISM02.3 MS
7440-48-4	Cobalt	2.4		mg/kg dry	0.44	3/26/16	4/04/16	CLP ISM02.3 MS
7440-50-8	Copper	21		mg/kg dry	0.89	3/26/16	4/04/16	CLP ISM02.3 MS
7439-89-6	Iron	26000		mg/kg dry	8.8	3/23/16	3/23/16	CLP ISM02.3 P
7439-92-1	Lead	15		mg/kg dry	0.44	3/26/16	4/04/16	CLP ISM02.3 MS
7439-95-4	Magnesium	510		mg/kg dry	440	3/23/16	3/23/16	CLP ISM02.3 P
7439-96-5	Manganese	200		mg/kg dry	1.3	3/23/16	3/23/16	CLP ISM02.3 P
7440-02-0	Nickel	1.0		mg/kg dry	0.44	3/26/16	4/04/16	CLP ISM02.3 MS
7440-09-7	Potassium	150	J, Q-2	mg/kg dry	440	3/23/16	3/23/16	CLP ISM02.3 P
7782-49-2	Selenium	2.2	U	mg/kg dry	2.2	3/26/16	4/04/16	CLP ISM02.3 MS
7440-22-4	Silver	0.44	U	mg/kg dry	0.44	3/26/16	4/04/16	CLP ISM02.3 MS
7440-23-5	Sodium	130	J, Q-2	mg/kg dry	440	3/23/16	3/23/16	CLP ISM02.3 P
7440-28-0	Thallium	0.44	U	mg/kg dry	0.44	3/26/16	4/04/16	CLP ISM02.3 MS
7440-62-2	Vanadium	40		mg/kg dry	2.2	3/26/16	4/04/16	CLP ISM02.3 MS
7440-66-6	Zinc	24		mg/kg dry	0.89	3/26/16	4/04/16	CLP ISM02.3 MS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH513SD1

Lab ID: C161601-08

MD No: 9S99 CHM

Station ID: BH513

Matrix: Sediment

D No:

Date Collected: 3/15/16 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.10	J, Q-2	mg/kg dry	0.13	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	68		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	8800		mg/kg dry	22	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	1.1	U	mg/kg dry	1.1	3/21/16	4/04/16	CLP ISM02.3 MS
7440-38-2	Arsenic	3.5		mg/kg dry	1.1	3/21/16	4/04/16	CLP ISM02.3 MS
7440-39-3	Barium	460		mg/kg dry	22	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.53	U	mg/kg dry	0.53	3/21/16	4/04/16	CLP ISM02.3 MS
7440-43-9	Cadmium	2.1		mg/kg dry	0.53	3/21/16	4/04/16	CLP ISM02.3 MS
7440-70-2	Calcium	1100		mg/kg dry	550	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	6.3		mg/kg dry	1.1	3/21/16	4/04/16	CLP ISM02.3 MS
7440-48-4	Cobalt	6.6		mg/kg dry	0.53	3/21/16	4/04/16	CLP ISM02.3 MS
7440-50-8	Copper	540		mg/kg dry	1.1	3/21/16	4/04/16	CLP ISM02.3 MS
7439-89-6	Iron	9500		mg/kg dry	11	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	15		mg/kg dry	0.53	3/21/16	4/04/16	CLP ISM02.3 MS
7439-95-4	Magnesium	450	J, Q-2	mg/kg dry	550	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	200		mg/kg dry	1.7	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	2.6		mg/kg dry	0.53	3/21/16	4/04/16	CLP ISM02.3 MS
7440-09-7	Potassium	130	J, Q-2	mg/kg dry	550	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	1.5	J, Q-2	mg/kg dry	5.3	3/21/16	4/04/16	CLP ISM02.3 MS
7440-22-4	Silver	0.53	U	mg/kg dry	0.53	3/21/16	4/04/16	CLP ISM02.3 MS
7440-23-5	Sodium	28	J, Q-2	mg/kg dry	550	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.53	U	mg/kg dry	0.53	3/21/16	4/04/16	CLP ISM02.3 MS
7440-62-2	Vanadium	18		mg/kg dry	2.6	3/21/16	4/04/16	CLP ISM02.3 MS
7440-66-6	Zinc	120		mg/kg dry	1.1	3/21/16	4/04/16	CLP ISM02.3 MS





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

**TCLP Metals**

**Project: 16-0316, Barite Hill/Nevada Goldfields**

**Contract Lab Case: 46066**

**Sample ID: BH513SD1**

**Lab ID: C161601-08**

**MD No: 9S99 CHM**

**Station ID: BH513**

**Matrix: Sediment**

**D No:**

**Date Collected: 3/15/16 10:10**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-39-3	Barium	0.91	J, Q-2	mg/L	100	3/25/16	3/29/16	CLP ISM02.3 P
7440-43-9	Cadmium	0.059	J, Q-2, QM-2	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-47-3	Chromium	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-92-1	Lead	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-97-6	Mercury	0.20	U	mg/L	0.20	3/25/16	3/25/16	CLP ISM02.3 CV
7782-49-2	Selenium	1.0	U	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-22-4	Silver	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P



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Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH514SD1

Lab ID: C161601-09

MD No: 9SA0 CHM

Station ID: BH514

Matrix: Sediment

D No:

Date Collected: 3/15/16 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20		mg/kg dry	0.14	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	68		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	8300		mg/kg dry	20	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	1.0	U	mg/kg dry	1.0	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	3.7		mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	440		mg/kg dry	20	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.50	U	mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	2.4		mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	580		mg/kg dry	510	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	6.7		mg/kg dry	1.0	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	13		mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	500		mg/kg dry	1.0	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	12000		mg/kg dry	10	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	22		mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	420	J, Q-2	mg/kg dry	510	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	120		mg/kg dry	1.5	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	2.6		mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	110	J, Q-2	mg/kg dry	510	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	0.67	J, Q-2	mg/kg dry	2.5	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	39	J, Q-2	mg/kg dry	510	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.50	U	mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	24		mg/kg dry	2.5	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	72		mg/kg dry	1.0	3/21/16	3/30/16	CLP ISM02.3 MS



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Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## TCLP Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH514SD1

Lab ID: C161601-09

MD No: 9SA0 CHM

Station ID: BH514

Matrix: Sediment

D No:

Date Collected: 3/15/16 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-39-3	Barium	1.4	J, Q-2	mg/L	100	3/25/16	3/29/16	CLP ISM02.3 P
7440-43-9	Cadmium	0.020	J, Q-2	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-47-3	Chromium	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-92-1	Lead	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-97-6	Mercury	0.20	U	mg/L	0.20	3/25/16	3/25/16	CLP ISM02.3 CV
7782-49-2	Selenium	1.0	U	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-22-4	Silver	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P



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D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH514SD3

Lab ID: C161601-10

MD No: 9SA1 CHM

Station ID: BH514

Matrix: Sediment

D No:

Date Collected: 3/15/16 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.099	J, Q-2	mg/kg dry	0.11	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	75		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	7800		mg/kg dry	18	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	0.93	U	mg/kg dry	0.93	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	2.4		mg/kg dry	0.46	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	310		mg/kg dry	18	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.46	U	mg/kg dry	0.46	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	0.46	U	mg/kg dry	0.46	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	870		mg/kg dry	460	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	6.3		mg/kg dry	0.93	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	17		mg/kg dry	0.46	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	23		mg/kg dry	0.93	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	10000		mg/kg dry	9.2	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	25		mg/kg dry	0.46	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	690		mg/kg dry	460	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	200		mg/kg dry	1.4	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	2.5		mg/kg dry	0.46	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	100	J, Q-2	mg/kg dry	460	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	4.6	U	mg/kg dry	4.6	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.46	U	mg/kg dry	0.46	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	51	J, Q-2	mg/kg dry	460	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.46	U	mg/kg dry	0.46	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	26		mg/kg dry	2.3	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	32		mg/kg dry	0.93	3/21/16	3/30/16	CLP ISM02.3 MS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## TCLP Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH514SD3

Lab ID: C161601-10

MD No: 9SA1 CHM

Station ID: BH514

Matrix: Sediment

D No:

Date Collected: 3/15/16 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-39-3	Barium	1.6	J, Q-2	mg/L	100	3/25/16	3/29/16	CLP ISM02.3 P
7440-43-9	Cadmium	0.0041	J, Q-2	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-47-3	Chromium	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-92-1	Lead	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-97-6	Mercury	0.00028	J, Q-2	mg/L	0.20	3/25/16	3/25/16	CLP ISM02.3 CV
7782-49-2	Selenium	1.0	U	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-22-4	Silver	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH514SD4

Lab ID: C161601-11

MD No: 9SA2 CHM

Station ID: BH514

Matrix: Sediment

D No:

Date Collected: 3/15/16 10:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.027	J, Q-2	mg/kg dry	0.11	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	80		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	7000		mg/kg dry	19	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	0.91	U	mg/kg dry	0.91	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	1.8		mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	210		mg/kg dry	19	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.45	U	mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	0.45	U	mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	650		mg/kg dry	470	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	6.6		mg/kg dry	0.91	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	11		mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	30		mg/kg dry	0.91	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	9500		mg/kg dry	9.4	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	22		mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	950		mg/kg dry	470	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	320		mg/kg dry	1.4	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	3.2		mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	94	J, Q-2	mg/kg dry	470	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	4.5	U	mg/kg dry	4.5	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.45	U	mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	56	J, Q-2	mg/kg dry	470	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.45	U	mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	20		mg/kg dry	2.3	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	51		mg/kg dry	0.91	3/21/16	3/30/16	CLP ISM02.3 MS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## TCLP Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH514SD4

Lab ID: C161601-11

MD No: 9SA2 CHM

Station ID: BH514

Matrix: Sediment

D No:

Date Collected: 3/15/16 10:45

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-39-3	Barium	1.4	J, Q-2	mg/L	100	3/25/16	3/29/16	CLP ISM02.3 P
7440-43-9	Cadmium	0.0031	J, Q-2	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-47-3	Chromium	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-92-1	Lead	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-97-6	Mercury	5.1E-5	J, Q-2	mg/L	0.20	3/25/16	3/25/16	CLP ISM02.3 CV
7782-49-2	Selenium	1.0	U	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-22-4	Silver	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P



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Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH515SD1

Lab ID: C161601-12

MD No: 9SA3 CHM

Station ID: BH515

Matrix: Sediment

D No:

Date Collected: 3/15/16 13:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.064	J, Q-2	mg/kg dry	0.13	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	75		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	7300		mg/kg dry	19	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	0.94	U	mg/kg dry	0.94	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	2.6		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	310		mg/kg dry	19	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.47	U	mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	11		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	380	J, Q-2	mg/kg dry	470	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	6.2		mg/kg dry	0.94	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	15		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	250		mg/kg dry	0.94	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	8300		mg/kg dry	9.3	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	21		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	460	J, Q-2	mg/kg dry	470	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	58		mg/kg dry	1.4	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	4.9		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	84	J, Q-2	mg/kg dry	470	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	4.7	U	mg/kg dry	4.7	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.47	U	mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	20	J, Q-2	mg/kg dry	470	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.47	U	mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	22		mg/kg dry	2.4	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	290		mg/kg dry	0.94	3/21/16	3/30/16	CLP ISM02.3 MS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH515SD3

Lab ID: C161601-13

MD No: 9SA4 CHM

Station ID: BH515

Matrix: Sediment

D No:

Date Collected: 3/15/16 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.029	J, Q-2	mg/kg dry	0.12	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	79		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	7500		mg/kg dry	18	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	0.88	U	mg/kg dry	0.88	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	2.1		mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	190		mg/kg dry	18	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.44	U	mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	5.9		mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	630		mg/kg dry	450	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	8.6		mg/kg dry	0.88	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	24		mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	150		mg/kg dry	0.88	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	7700		mg/kg dry	8.9	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	18		mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	810		mg/kg dry	450	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	110		mg/kg dry	1.3	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	6.3		mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	110	J, Q-2	mg/kg dry	450	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	0.46	J, Q-2	mg/kg dry	2.2	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.44	U	mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	62	J, Q-2	mg/kg dry	450	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.44	U	mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	18		mg/kg dry	2.2	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	280		mg/kg dry	0.88	3/21/16	3/30/16	CLP ISM02.3 MS





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D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH515SD4

Lab ID: C161601-14

MD No: 9SA5 CHM

Station ID: BH515

Matrix: Sediment

D No:

Date Collected: 3/15/16 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.034	J, Q-2	mg/kg dry	0.11	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	84		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	7400		mg/kg dry	18	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	0.89	U	mg/kg dry	0.89	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	2.4		mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	79		mg/kg dry	18	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.44	U	mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	0.44	U	mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	530		mg/kg dry	440	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	11		mg/kg dry	0.89	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	4.2		mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	32		mg/kg dry	0.89	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	15000		mg/kg dry	8.8	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	14		mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	960		mg/kg dry	440	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	130		mg/kg dry	1.3	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	2.4		mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	98	J, Q-2	mg/kg dry	440	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	2.2	U	mg/kg dry	2.2	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.44	U	mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	68	J, Q-2	mg/kg dry	440	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.44	U	mg/kg dry	0.44	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	30		mg/kg dry	2.2	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	44		mg/kg dry	0.89	3/21/16	3/30/16	CLP ISM02.3 MS





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D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH516SD1

Lab ID: C161601-15

MD No: 9SA6 CHM

Station ID: BH516

Matrix: Sediment

D No:

Date Collected: 3/15/16 13:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.17		mg/kg dry	0.13	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	70		%		3/22/16	3/23/16	CLP Inorganics
7429-90-5	Aluminum	9900		mg/kg dry	20	3/23/16	4/03/16	CLP ISM02.3 P
7440-36-0	Antimony	1.1	U	mg/kg dry	1.1	3/26/16	4/04/16	CLP ISM02.3 MS
7440-38-2	Arsenic	2.9	J, Q-5	mg/kg dry	1.1	3/26/16	4/04/16	CLP ISM02.3 MS
7440-39-3	Barium	230		mg/kg dry	20	3/23/16	4/03/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.43	J, Q-2	mg/kg dry	0.54	3/26/16	4/04/16	CLP ISM02.3 MS
7440-43-9	Cadmium	1.2		mg/kg dry	0.54	3/26/16	4/04/16	CLP ISM02.3 MS
7440-70-2	Calcium	750		mg/kg dry	500	3/23/16	4/03/16	CLP ISM02.3 P
7440-47-3	Chromium	8.0		mg/kg dry	1.1	3/26/16	4/04/16	CLP ISM02.3 MS
7440-48-4	Cobalt	27		mg/kg dry	0.54	3/26/16	4/04/16	CLP ISM02.3 MS
7440-50-8	Copper	52		mg/kg dry	1.1	3/26/16	4/04/16	CLP ISM02.3 MS
7439-89-6	Iron	9400		mg/kg dry	9.9	3/23/16	4/03/16	CLP ISM02.3 P
7439-92-1	Lead	24		mg/kg dry	0.54	3/26/16	4/04/16	CLP ISM02.3 MS
7439-95-4	Magnesium	770		mg/kg dry	500	3/23/16	4/03/16	CLP ISM02.3 P
7439-96-5	Manganese	120		mg/kg dry	1.5	3/23/16	4/03/16	CLP ISM02.3 P
7440-02-0	Nickel	6.5		mg/kg dry	0.54	3/26/16	4/04/16	CLP ISM02.3 MS
7440-09-7	Potassium	110	J, Q-2	mg/kg dry	500	3/23/16	4/03/16	CLP ISM02.3 P
7782-49-2	Selenium	5.4	U	mg/kg dry	5.4	3/26/16	4/04/16	CLP ISM02.3 MS
7440-22-4	Silver	0.54	U	mg/kg dry	0.54	3/26/16	4/04/16	CLP ISM02.3 MS
7440-23-5	Sodium	40	J, Q-2	mg/kg dry	500	3/23/16	4/03/16	CLP ISM02.3 P
7440-28-0	Thallium	0.54	U	mg/kg dry	0.54	3/26/16	4/04/16	CLP ISM02.3 MS
7440-62-2	Vanadium	33		mg/kg dry	2.7	3/26/16	4/04/16	CLP ISM02.3 MS
7440-66-6	Zinc	300		mg/kg dry	1.1	3/26/16	4/04/16	CLP ISM02.3 MS



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D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH517SD1

Lab ID: C161601-16

MD No: 9SA7 CHM

Station ID: BH517

Matrix: Sediment

D No:

Date Collected: 3/15/16 13:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.086	J, Q-2	mg/kg dry	0.13	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	73		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	7300		mg/kg dry	20	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	0.94	U	mg/kg dry	0.94	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	3.9		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	220		mg/kg dry	20	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.47	U	mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	3.4		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	720		mg/kg dry	490	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	6.5		mg/kg dry	0.94	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	27		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	350		mg/kg dry	0.94	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	11000		mg/kg dry	9.8	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	18		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	430	J, Q-2	mg/kg dry	490	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	120		mg/kg dry	1.5	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	4.7		mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	98	J, Q-2	mg/kg dry	490	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	0.56	J, Q-2	mg/kg dry	2.3	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.47	U	mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	54	J, Q-2	mg/kg dry	490	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.47	U	mg/kg dry	0.47	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	24		mg/kg dry	2.3	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	160		mg/kg dry	0.94	3/21/16	3/30/16	CLP ISM02.3 MS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

**TCLP Metals**

**Project: 16-0316, Barite Hill/Nevada Goldfields**

**Contract Lab Case: 46066**

**Sample ID: BH517SD1**

**Lab ID: C161601-16**

**MD No: 9SA7 CHM**

**Station ID: BH517**

**Matrix: Sediment**

**D No:**

**Date Collected: 3/15/16 13:45**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-39-3	Barium	1.1	J, Q-2	mg/L	100	3/25/16	3/29/16	CLP ISM02.3 P
7440-43-9	Cadmium	0.064	J, Q-2	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-47-3	Chromium	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-92-1	Lead	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-97-6	Mercury	0.20	U	mg/L	0.20	3/25/16	3/25/16	CLP ISM02.3 CV
7782-49-2	Selenium	1.0	U	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-22-4	Silver	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P



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D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH517SD3

Lab ID: C161601-17

MD No: 9SA8 CHM

Station ID: BH517

Matrix: Sediment

D No:

Date Collected: 3/15/16 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.17		mg/kg dry	0.11	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	85		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	6600		mg/kg dry	16	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	0.86	U	mg/kg dry	0.86	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	2.0		mg/kg dry	0.43	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	230		mg/kg dry	16	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.43	U	mg/kg dry	0.43	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	0.43	U	mg/kg dry	0.43	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	700		mg/kg dry	410	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	6.4		mg/kg dry	0.86	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	8.8		mg/kg dry	0.43	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	31		mg/kg dry	0.86	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	10000		mg/kg dry	8.3	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	18		mg/kg dry	0.43	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	710		mg/kg dry	410	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	170		mg/kg dry	1.2	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	2.4		mg/kg dry	0.43	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	100	J, Q-2	mg/kg dry	410	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	2.1	U	mg/kg dry	2.1	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.43	U	mg/kg dry	0.43	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	85	J, Q-2	mg/kg dry	410	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.43	U	mg/kg dry	0.43	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	20		mg/kg dry	2.1	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	51		mg/kg dry	0.86	3/21/16	3/30/16	CLP ISM02.3 MS



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D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## TCLP Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH517SD3

Lab ID: C161601-17

MD No: 9SA8 CHM

Station ID: BH517

Matrix: Sediment

D No:

Date Collected: 3/15/16 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-39-3	Barium	1.5	J, Q-2	mg/L	100	3/25/16	3/29/16	CLP ISM02.3 P
7440-43-9	Cadmium	0.0036	J, Q-2	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-47-3	Chromium	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-92-1	Lead	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-97-6	Mercury	0.00018	J, Q-2	mg/L	0.20	3/25/16	3/25/16	CLP ISM02.3 CV
7782-49-2	Selenium	1.0	U	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-22-4	Silver	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P





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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH517SD5

Lab ID: C161601-18

MD No: 9SA9 CHM

Station ID: BH517

Matrix: Sediment

D No:

Date Collected: 3/15/16 13:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.054	J, Q-2	mg/kg dry	0.11	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	83		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	6300		mg/kg dry	16	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	0.90	U	mg/kg dry	0.90	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	1.8		mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	150		mg/kg dry	16	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.45	U	mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	0.45	U	mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	500		mg/kg dry	410	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	11		mg/kg dry	0.90	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	6.3		mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	29		mg/kg dry	0.90	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	11000		mg/kg dry	8.2	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	12		mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	1200		mg/kg dry	410	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	160		mg/kg dry	1.2	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	3.2		mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	97	J, Q-2	mg/kg dry	410	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	2.3	U	mg/kg dry	2.3	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.45	U	mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	98	J, Q-2	mg/kg dry	410	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.45	U	mg/kg dry	0.45	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	20		mg/kg dry	2.3	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	50		mg/kg dry	0.90	3/21/16	3/30/16	CLP ISM02.3 MS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH9517SD3

Lab ID: C161601-19

MD No: 9SB7 CHM

Station ID: BH517

Matrix: Sediment

D No:

Date Collected: 3/15/16 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.23		mg/kg dry	0.11	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	78		%		3/23/16	3/23/16	CLP Inorganics
7429-90-5	Aluminum	7500		mg/kg dry	19	3/23/16	3/23/16	CLP ISM02.3 P
7440-36-0	Antimony	0.93	U	mg/kg dry	0.93	3/26/16	4/04/16	CLP ISM02.3 MS
7440-38-2	Arsenic	2.3	J, Q-5	mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7440-39-3	Barium	240		mg/kg dry	19	3/23/16	3/23/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.23	J, Q-2	mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7440-43-9	Cadmium	0.49		mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7440-70-2	Calcium	760		mg/kg dry	470	3/23/16	3/23/16	CLP ISM02.3 P
7440-47-3	Chromium	6.6		mg/kg dry	0.93	3/26/16	4/04/16	CLP ISM02.3 MS
7440-48-4	Cobalt	12		mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7440-50-8	Copper	41		mg/kg dry	0.93	3/26/16	4/04/16	CLP ISM02.3 MS
7439-89-6	Iron	10000		mg/kg dry	9.5	3/23/16	3/23/16	CLP ISM02.3 P
7439-92-1	Lead	22		mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7439-95-4	Magnesium	810		mg/kg dry	470	3/23/16	3/23/16	CLP ISM02.3 P
7439-96-5	Manganese	190		mg/kg dry	1.4	3/23/16	3/23/16	CLP ISM02.3 P
7440-02-0	Nickel	2.5		mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7440-09-7	Potassium	140	J, Q-2	mg/kg dry	470	3/23/16	3/23/16	CLP ISM02.3 P
7782-49-2	Selenium	2.3	U	mg/kg dry	2.3	3/26/16	4/04/16	CLP ISM02.3 MS
7440-22-4	Silver	0.47	U	mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7440-23-5	Sodium	76	J, Q-2	mg/kg dry	470	3/23/16	3/23/16	CLP ISM02.3 P
7440-28-0	Thallium	0.47	U	mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7440-62-2	Vanadium	22		mg/kg dry	2.3	3/26/16	4/04/16	CLP ISM02.3 MS
7440-66-6	Zinc	68		mg/kg dry	0.93	3/26/16	4/04/16	CLP ISM02.3 MS



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D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH518SD1

Lab ID: C161601-20

MD No: 9SB0 CHM

Station ID: BH518

Matrix: Sediment

D No:

Date Collected: 3/15/16 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.099	J, Q-2	mg/kg dry	0.13	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	72		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	7700		mg/kg dry	20	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	1.0	U	mg/kg dry	1.0	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	5.6		mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	440		mg/kg dry	20	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.50	U	mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	2.4		mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	720		mg/kg dry	510	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	13		mg/kg dry	1.0	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	18		mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	99		mg/kg dry	1.0	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	15000		mg/kg dry	10	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	38		mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	400	J, Q-2	mg/kg dry	510	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	420		mg/kg dry	1.5	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	4.7		mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	140	J, Q-2	mg/kg dry	510	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	0.76	J, Q-2	mg/kg dry	2.5	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.50	U	mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	77	J, Q-2	mg/kg dry	510	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.50	U	mg/kg dry	0.50	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	43		mg/kg dry	2.5	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	130		mg/kg dry	1.0	3/21/16	3/30/16	CLP ISM02.3 MS



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D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## TCLP Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH518SD1

Lab ID: C161601-20

MD No: 9SB0 CHM

Station ID: BH518

Matrix: Sediment

D No:

Date Collected: 3/15/16 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-39-3	Barium	1.1	J, Q-2	mg/L	100	3/25/16	3/29/16	CLP ISM02.3 P
7440-43-9	Cadmium	0.035	J, Q-2	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-47-3	Chromium	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-92-1	Lead	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-97-6	Mercury	0.20	U	mg/L	0.20	3/25/16	3/25/16	CLP ISM02.3 CV
7782-49-2	Selenium	1.0	U	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-22-4	Silver	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P





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D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH518SD3

Lab ID: C161601-21

MD No: 9SB1 CHM

Station ID: BH518

Matrix: Sediment

D No:

Date Collected: 3/15/16 14:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.20		mg/kg dry	0.11	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	76		%		3/22/16	3/22/16	CLP Inorganics
7429-90-5	Aluminum	7100		mg/kg dry	19	3/22/16	3/22/16	CLP ISM02.3 P
7440-36-0	Antimony	1.0	U	mg/kg dry	1.0	3/21/16	3/30/16	CLP ISM02.3 MS
7440-38-2	Arsenic	4.2		mg/kg dry	1.0	3/21/16	3/30/16	CLP ISM02.3 MS
7440-39-3	Barium	260		mg/kg dry	19	3/22/16	3/22/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.63		mg/kg dry	0.51	3/21/16	3/30/16	CLP ISM02.3 MS
7440-43-9	Cadmium	0.51	U	mg/kg dry	0.51	3/21/16	3/30/16	CLP ISM02.3 MS
7440-70-2	Calcium	740		mg/kg dry	480	3/22/16	3/22/16	CLP ISM02.3 P
7440-47-3	Chromium	11		mg/kg dry	1.0	3/21/16	3/30/16	CLP ISM02.3 MS
7440-48-4	Cobalt	17		mg/kg dry	0.51	3/21/16	3/30/16	CLP ISM02.3 MS
7440-50-8	Copper	55		mg/kg dry	1.0	3/21/16	3/30/16	CLP ISM02.3 MS
7439-89-6	Iron	12000		mg/kg dry	9.5	3/22/16	3/22/16	CLP ISM02.3 P
7439-92-1	Lead	46		mg/kg dry	0.51	3/21/16	3/30/16	CLP ISM02.3 MS
7439-95-4	Magnesium	650		mg/kg dry	480	3/22/16	3/22/16	CLP ISM02.3 P
7439-96-5	Manganese	640		mg/kg dry	1.4	3/22/16	3/22/16	CLP ISM02.3 P
7440-02-0	Nickel	4.3		mg/kg dry	0.51	3/21/16	3/30/16	CLP ISM02.3 MS
7440-09-7	Potassium	75	J, Q-2	mg/kg dry	480	3/22/16	3/22/16	CLP ISM02.3 P
7782-49-2	Selenium	5.1	U	mg/kg dry	5.1	3/21/16	3/30/16	CLP ISM02.3 MS
7440-22-4	Silver	0.51	U	mg/kg dry	0.51	3/21/16	3/30/16	CLP ISM02.3 MS
7440-23-5	Sodium	69	J, Q-2	mg/kg dry	480	3/22/16	3/22/16	CLP ISM02.3 P
7440-28-0	Thallium	0.51	U	mg/kg dry	0.51	3/21/16	3/30/16	CLP ISM02.3 MS
7440-62-2	Vanadium	44		mg/kg dry	2.6	3/21/16	3/30/16	CLP ISM02.3 MS
7440-66-6	Zinc	85		mg/kg dry	1.0	3/21/16	3/30/16	CLP ISM02.3 MS





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Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## TCLP Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH518SD3

Lab ID: C161601-21

MD No: 9SB1 CHM

Station ID: BH518

Matrix: Sediment

D No:

Date Collected: 3/15/16 14:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-38-2	Arsenic	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-39-3	Barium	1.8	J, Q-2	mg/L	100	3/25/16	3/29/16	CLP ISM02.3 P
7440-43-9	Cadmium	0.0022	J, Q-2	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-47-3	Chromium	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-92-1	Lead	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-97-6	Mercury	0.00027	J, Q-2	mg/L	0.20	3/25/16	3/25/16	CLP ISM02.3 CV
7782-49-2	Selenium	1.0	U	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-22-4	Silver	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH518SD5

Lab ID: C161601-22

MD No: 9SB2 CHM

Station ID: BH518

Matrix: Sediment

D No:

Date Collected: 3/15/16 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.051	J, Q-2	mg/kg dry	0.11	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	78		%		3/23/16	3/23/16	CLP Inorganics
7429-90-5	Aluminum	8100		mg/kg dry	19	3/23/16	3/23/16	CLP ISM02.3 P
7440-36-0	Antimony	0.94	U	mg/kg dry	0.94	3/26/16	4/04/16	CLP ISM02.3 MS
7440-38-2	Arsenic	2.5	J, Q-5	mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7440-39-3	Barium	260		mg/kg dry	19	3/23/16	3/23/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.25	J, Q-2	mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7440-43-9	Cadmium	0.25	J, Q-2	mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7440-70-2	Calcium	670		mg/kg dry	480	3/23/16	3/23/16	CLP ISM02.3 P
7440-47-3	Chromium	6.2		mg/kg dry	0.94	3/26/16	4/04/16	CLP ISM02.3 MS
7440-48-4	Cobalt	9.7		mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7440-50-8	Copper	37		mg/kg dry	0.94	3/26/16	4/04/16	CLP ISM02.3 MS
7439-89-6	Iron	12000		mg/kg dry	9.6	3/23/16	3/23/16	CLP ISM02.3 P
7439-92-1	Lead	23		mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7439-95-4	Magnesium	1000		mg/kg dry	480	3/23/16	3/23/16	CLP ISM02.3 P
7439-96-5	Manganese	410		mg/kg dry	1.4	3/23/16	3/23/16	CLP ISM02.3 P
7440-02-0	Nickel	2.2		mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7440-09-7	Potassium	180	J, Q-2	mg/kg dry	480	3/23/16	3/23/16	CLP ISM02.3 P
7782-49-2	Selenium	2.4	U	mg/kg dry	2.4	3/26/16	4/04/16	CLP ISM02.3 MS
7440-22-4	Silver	0.47	U	mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7440-23-5	Sodium	150	J, Q-2	mg/kg dry	480	3/23/16	3/23/16	CLP ISM02.3 P
7440-28-0	Thallium	0.47	U	mg/kg dry	0.47	3/26/16	4/04/16	CLP ISM02.3 MS
7440-62-2	Vanadium	22		mg/kg dry	2.4	3/26/16	4/04/16	CLP ISM02.3 MS
7440-66-6	Zinc	55		mg/kg dry	0.94	3/26/16	4/04/16	CLP ISM02.3 MS



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

**TCLP Metals**

**Project: 16-0316, Barite Hill/Nevada Goldfields**

**Contract Lab Case: 46066**

**Sample ID: BH518SD5**

**Lab ID: C161601-22**

**MD No: 9SB2 CHM**

**Station ID: BH518**

**Matrix: Sediment**

**D No:**

**Date Collected: 3/15/16 14:45**

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-39-3	Barium	1.8	J, Q-2	mg/L	100	3/25/16	3/29/16	CLP ISM02.3 P
7440-43-9	Cadmium	0.0024	J, Q-2	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-47-3	Chromium	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-92-1	Lead	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P
7439-97-6	Mercury	0.00018	J, Q-2	mg/L	0.20	3/25/16	3/25/16	CLP ISM02.3 CV
7782-49-2	Selenium	1.0	U	mg/L	1.0	3/25/16	3/29/16	CLP ISM02.3 P
7440-22-4	Silver	5.0	U	mg/L	5.0	3/25/16	3/29/16	CLP ISM02.3 P



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division  
980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 16-0316

Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH519SD1

Lab ID: C161601-23

MD No: 9SB3 CHM

Station ID: BH519

Matrix: Sediment

D No:

Date Collected: 3/15/16 15:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.37		mg/kg dry	0.13	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	71		%		3/23/16	3/23/16	CLP Inorganics
7429-90-5	Aluminum	7300		mg/kg dry	20	3/23/16	3/23/16	CLP ISM02.3 P
7440-36-0	Antimony	1.0	U	mg/kg dry	1.0	3/26/16	4/04/16	CLP ISM02.3 MS
7440-38-2	Arsenic	5.1	J, Q-5	mg/kg dry	0.51	3/26/16	4/04/16	CLP ISM02.3 MS
7440-39-3	Barium	410		mg/kg dry	20	3/23/16	3/23/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.19	J, Q-2	mg/kg dry	0.51	3/26/16	4/04/16	CLP ISM02.3 MS
7440-43-9	Cadmium	1.6		mg/kg dry	0.51	3/26/16	4/04/16	CLP ISM02.3 MS
7440-70-2	Calcium	740		mg/kg dry	510	3/23/16	3/23/16	CLP ISM02.3 P
7440-47-3	Chromium	6.8		mg/kg dry	1.0	3/26/16	4/04/16	CLP ISM02.3 MS
7440-48-4	Cobalt	8.1		mg/kg dry	0.51	3/26/16	4/04/16	CLP ISM02.3 MS
7440-50-8	Copper	340		mg/kg dry	1.0	3/26/16	4/04/16	CLP ISM02.3 MS
7439-89-6	Iron	18000		mg/kg dry	10	3/23/16	3/23/16	CLP ISM02.3 P
7439-92-1	Lead	21		mg/kg dry	0.51	3/26/16	4/04/16	CLP ISM02.3 MS
7439-95-4	Magnesium	430	J, Q-2	mg/kg dry	510	3/23/16	3/23/16	CLP ISM02.3 P
7439-96-5	Manganese	390		mg/kg dry	1.5	3/23/16	3/23/16	CLP ISM02.3 P
7440-02-0	Nickel	2.1		mg/kg dry	0.51	3/26/16	4/04/16	CLP ISM02.3 MS
7440-09-7	Potassium	120	J, Q-2	mg/kg dry	510	3/23/16	3/23/16	CLP ISM02.3 P
7782-49-2	Selenium	0.59	J, Q-2	mg/kg dry	2.5	3/26/16	4/04/16	CLP ISM02.3 MS
7440-22-4	Silver	0.51	U	mg/kg dry	0.51	3/26/16	4/04/16	CLP ISM02.3 MS
7440-23-5	Sodium	91	J, Q-2	mg/kg dry	510	3/23/16	3/23/16	CLP ISM02.3 P
7440-28-0	Thallium	0.51	U	mg/kg dry	0.51	3/26/16	4/04/16	CLP ISM02.3 MS
7440-62-2	Vanadium	23		mg/kg dry	2.5	3/26/16	4/04/16	CLP ISM02.3 MS
7440-66-6	Zinc	59		mg/kg dry	1.0	3/26/16	4/04/16	CLP ISM02.3 MS



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## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH519SD3

Lab ID: C161601-24

MD No: 9SB4 CHM

Station ID: BH519

Matrix: Sediment

D No:

Date Collected: 3/15/16 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.53		mg/kg dry	0.12	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	74		%		3/23/16	3/23/16	CLP Inorganics
7429-90-5	Aluminum	8700		mg/kg dry	19	3/23/16	3/23/16	CLP ISM02.3 P
7440-36-0	Antimony	0.96	U	mg/kg dry	0.96	3/26/16	4/04/16	CLP ISM02.3 MS
7440-38-2	Arsenic	3.5	J, Q-5	mg/kg dry	0.48	3/26/16	4/04/16	CLP ISM02.3 MS
7440-39-3	Barium	320		mg/kg dry	19	3/23/16	3/23/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.28	J, Q-2	mg/kg dry	0.48	3/26/16	4/04/16	CLP ISM02.3 MS
7440-43-9	Cadmium	0.14	J, Q-2	mg/kg dry	0.48	3/26/16	4/04/16	CLP ISM02.3 MS
7440-70-2	Calcium	640		mg/kg dry	460	3/23/16	3/23/16	CLP ISM02.3 P
7440-47-3	Chromium	7.2		mg/kg dry	0.96	3/26/16	4/04/16	CLP ISM02.3 MS
7440-48-4	Cobalt	9.0		mg/kg dry	0.48	3/26/16	4/04/16	CLP ISM02.3 MS
7440-50-8	Copper	32		mg/kg dry	0.96	3/26/16	4/04/16	CLP ISM02.3 MS
7439-89-6	Iron	13000		mg/kg dry	9.3	3/23/16	3/23/16	CLP ISM02.3 P
7439-92-1	Lead	24		mg/kg dry	0.48	3/26/16	4/04/16	CLP ISM02.3 MS
7439-95-4	Magnesium	560		mg/kg dry	460	3/23/16	3/23/16	CLP ISM02.3 P
7439-96-5	Manganese	630		mg/kg dry	1.4	3/23/16	3/23/16	CLP ISM02.3 P
7440-02-0	Nickel	2.3		mg/kg dry	0.48	3/26/16	4/04/16	CLP ISM02.3 MS
7440-09-7	Potassium	150	J, Q-2	mg/kg dry	460	3/23/16	3/23/16	CLP ISM02.3 P
7782-49-2	Selenium	0.60	J, Q-2	mg/kg dry	2.4	3/26/16	4/04/16	CLP ISM02.3 MS
7440-22-4	Silver	0.48	U	mg/kg dry	0.48	3/26/16	4/04/16	CLP ISM02.3 MS
7440-23-5	Sodium	79	J, Q-2	mg/kg dry	460	3/23/16	3/23/16	CLP ISM02.3 P
7440-28-0	Thallium	0.48	U	mg/kg dry	0.48	3/26/16	4/04/16	CLP ISM02.3 MS
7440-62-2	Vanadium	30		mg/kg dry	2.4	3/26/16	4/04/16	CLP ISM02.3 MS
7440-66-6	Zinc	29		mg/kg dry	0.96	3/26/16	4/04/16	CLP ISM02.3 MS





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## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH519SD5

Lab ID: C161601-25

MD No: 9SB5 CHM

Station ID: BH519

Matrix: Sediment

D No:

Date Collected: 3/15/16 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.19		mg/kg dry	0.13	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	73		%		3/23/16	3/23/16	CLP Inorganics
7429-90-5	Aluminum	8100		mg/kg dry	21	3/23/16	3/23/16	CLP ISM02.3 P
7440-36-0	Antimony	1.1	U	mg/kg dry	1.1	3/26/16	4/04/16	CLP ISM02.3 MS
7440-38-2	Arsenic	3.7	J, Q-5	mg/kg dry	0.52	3/26/16	4/04/16	CLP ISM02.3 MS
7440-39-3	Barium	290		mg/kg dry	21	3/23/16	3/23/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.32	J, Q-2	mg/kg dry	0.52	3/26/16	4/04/16	CLP ISM02.3 MS
7440-43-9	Cadmium	0.23	J, Q-2	mg/kg dry	0.52	3/26/16	4/04/16	CLP ISM02.3 MS
7440-70-2	Calcium	720		mg/kg dry	520	3/23/16	3/23/16	CLP ISM02.3 P
7440-47-3	Chromium	7.5		mg/kg dry	1.1	3/26/16	4/04/16	CLP ISM02.3 MS
7440-48-4	Cobalt	8.7		mg/kg dry	0.52	3/26/16	4/04/16	CLP ISM02.3 MS
7440-50-8	Copper	88		mg/kg dry	1.1	3/26/16	4/04/16	CLP ISM02.3 MS
7439-89-6	Iron	13000		mg/kg dry	10	3/23/16	3/23/16	CLP ISM02.3 P
7439-92-1	Lead	26		mg/kg dry	0.52	3/26/16	4/04/16	CLP ISM02.3 MS
7439-95-4	Magnesium	640		mg/kg dry	520	3/23/16	3/23/16	CLP ISM02.3 P
7439-96-5	Manganese	550		mg/kg dry	1.6	3/23/16	3/23/16	CLP ISM02.3 P
7440-02-0	Nickel	2.3		mg/kg dry	0.52	3/26/16	4/04/16	CLP ISM02.3 MS
7440-09-7	Potassium	140	J, Q-2	mg/kg dry	520	3/23/16	3/23/16	CLP ISM02.3 P
7782-49-2	Selenium	5.2	U	mg/kg dry	5.2	3/26/16	4/04/16	CLP ISM02.3 MS
7440-22-4	Silver	0.52	U	mg/kg dry	0.52	3/26/16	4/04/16	CLP ISM02.3 MS
7440-23-5	Sodium	91	J, Q-2	mg/kg dry	520	3/23/16	3/23/16	CLP ISM02.3 P
7440-28-0	Thallium	0.52	U	mg/kg dry	0.52	3/26/16	4/04/16	CLP ISM02.3 MS
7440-62-2	Vanadium	28		mg/kg dry	2.6	3/26/16	4/04/16	CLP ISM02.3 MS
7440-66-6	Zinc	38		mg/kg dry	1.1	3/26/16	4/04/16	CLP ISM02.3 MS



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Project: 16-0316, Barite Hill/Nevada Goldfields - Reported by Denise Goddard

## Total Metals

Project: 16-0316, Barite Hill/Nevada Goldfields

Contract Lab Case: 46066

Sample ID: BH9519SD1

Lab ID: C161601-26

MD No: 9SB8 CHM

Station ID: BH519

Matrix: Sediment

D No:

Date Collected: 3/15/16 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7439-97-6	Mercury	0.17		mg/kg dry	0.14	3/22/16	3/23/16	CLP ISM02.3 CV
E1642941	% Solids	64		%		3/23/16	3/23/16	CLP Inorganics
7429-90-5	Aluminum	7400		mg/kg dry	22	3/23/16	3/23/16	CLP ISM02.3 P
7440-36-0	Antimony	1.1	U	mg/kg dry	1.1	3/26/16	4/04/16	CLP ISM02.3 MS
7440-38-2	Arsenic	5.7	J, Q-5	mg/kg dry	0.56	3/26/16	4/04/16	CLP ISM02.3 MS
7440-39-3	Barium	400		mg/kg dry	22	3/23/16	3/23/16	CLP ISM02.3 P
7440-41-7	Beryllium	0.25	J, Q-2	mg/kg dry	0.56	3/26/16	4/04/16	CLP ISM02.3 MS
7440-43-9	Cadmium	2.0		mg/kg dry	0.56	3/26/16	4/04/16	CLP ISM02.3 MS
7440-70-2	Calcium	820		mg/kg dry	560	3/23/16	3/23/16	CLP ISM02.3 P
7440-47-3	Chromium	7.9		mg/kg dry	1.1	3/26/16	4/04/16	CLP ISM02.3 MS
7440-48-4	Cobalt	10		mg/kg dry	0.56	3/26/16	4/04/16	CLP ISM02.3 MS
7440-50-8	Copper	430		mg/kg dry	1.1	3/26/16	4/04/16	CLP ISM02.3 MS
7439-89-6	Iron	20000		mg/kg dry	11	3/23/16	3/23/16	CLP ISM02.3 P
7439-92-1	Lead	24		mg/kg dry	0.56	3/26/16	4/04/16	CLP ISM02.3 MS
7439-95-4	Magnesium	440	J, Q-2	mg/kg dry	560	3/23/16	3/23/16	CLP ISM02.3 P
7439-96-5	Manganese	380		mg/kg dry	1.7	3/23/16	3/23/16	CLP ISM02.3 P
7440-02-0	Nickel	2.6		mg/kg dry	0.56	3/26/16	4/04/16	CLP ISM02.3 MS
7440-09-7	Potassium	120	J, Q-2	mg/kg dry	560	3/23/16	3/23/16	CLP ISM02.3 P
7782-49-2	Selenium	1.2	J, Q-2	mg/kg dry	2.8	3/26/16	4/04/16	CLP ISM02.3 MS
7440-22-4	Silver	0.56	U	mg/kg dry	0.56	3/26/16	4/04/16	CLP ISM02.3 MS
7440-23-5	Sodium	98	J, Q-2	mg/kg dry	560	3/23/16	3/23/16	CLP ISM02.3 P
7440-28-0	Thallium	0.56	U	mg/kg dry	0.56	3/26/16	4/04/16	CLP ISM02.3 MS
7440-62-2	Vanadium	26		mg/kg dry	2.8	3/26/16	4/04/16	CLP ISM02.3 MS
7440-66-6	Zinc	88		mg/kg dry	1.1	3/26/16	4/04/16	CLP ISM02.3 MS